

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the application:

LISTING OF CLAIMS:

1. (currently amended): A liquid chromatography separation system ~~that has properties~~, comprising:

~~at least two or more individual~~ analysis systems, each of said analysis systems having a mobile phase and ~~an analytical~~ solid phase column and ~~serving as an orthogonal having a chromatographic separation mode with respect to others different from that of the other of said~~ analysis systems, and controlling independently the mobile phase that flows through the analytical solid phase column;

a plurality of trapping columns for trapping analytes of the mobile phase that are eluted from the first analytical solid phase column;

a mechanism for selecting ~~either between~~ loading the analytes eluted from the first analytical solid phase column onto said trapping columns, or diverting the mobile phase to waste; and

a mechanism for eluting the analytes trapped on each of said trapping columns and for online loading onto ~~at the~~ second analytical solid phase column; and

a mechanism for gradient elution.

2. (currently amended): The liquid chromatography system according to claim 1, further comprising a detector for system ~~for detection of separated analytes eluted from the second analytical column or a last column if there is a series of more than two systems with more than two columns.~~

3. (currently amended): The liquid chromatography system according to claim 1, further comprising a detector for system ~~for detection of separated analytes eluted from the first solid phase column or an intermediate column if there are more than two independent systems and columns.~~

4. (currently amended): The liquid chromatography system according to claim 1, 2 or 3, further comprising a system for desalting that is set up independently ~~from any other of said two analysis~~ systems, the desalting being performed after trapping the analytes on each trapping column and before loading onto the second analytical solid phase next column, and a solvent for desalting being different from ~~those that~~ that of any ~~other said mobile phases and mobile phase.~~